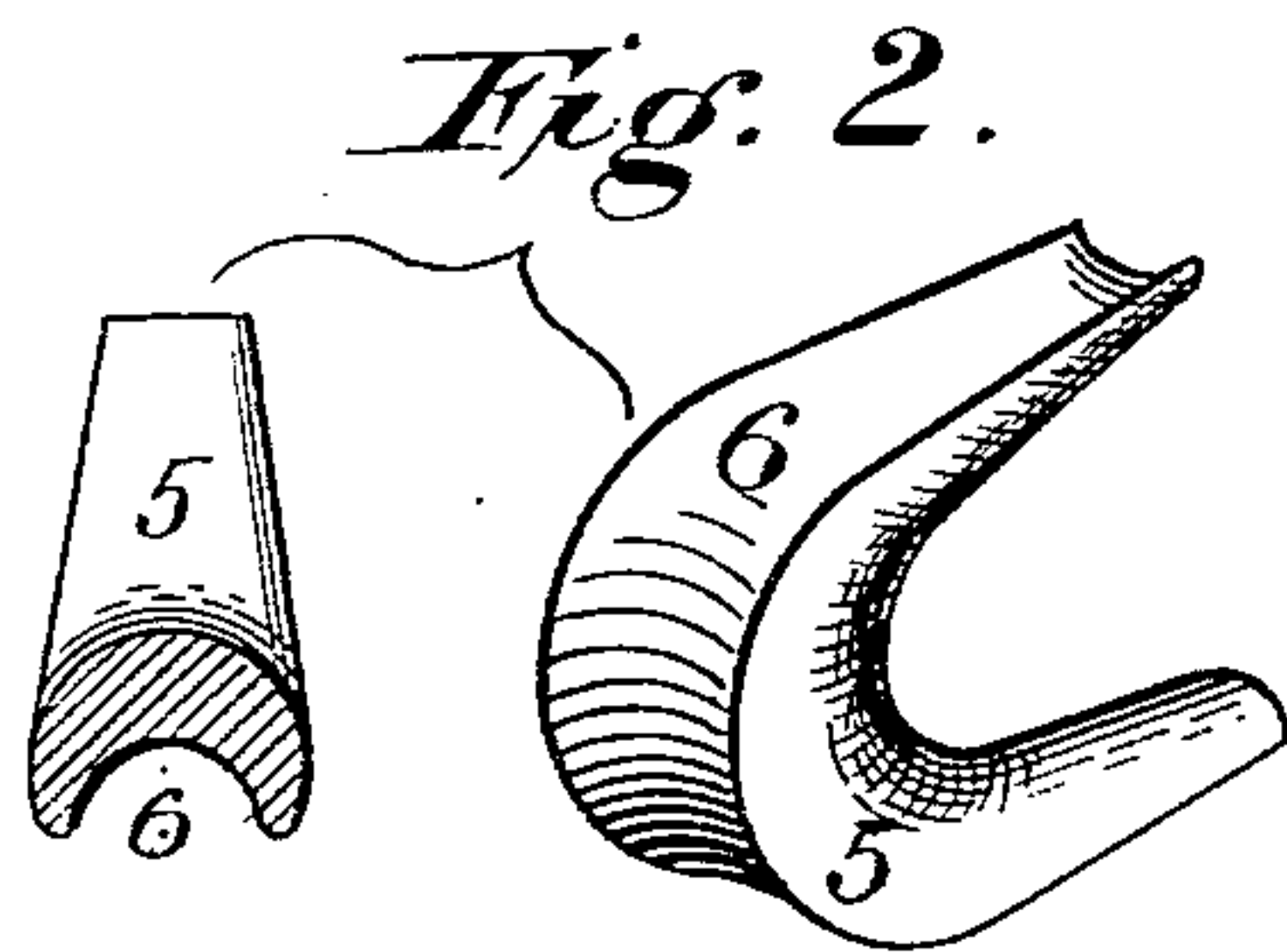
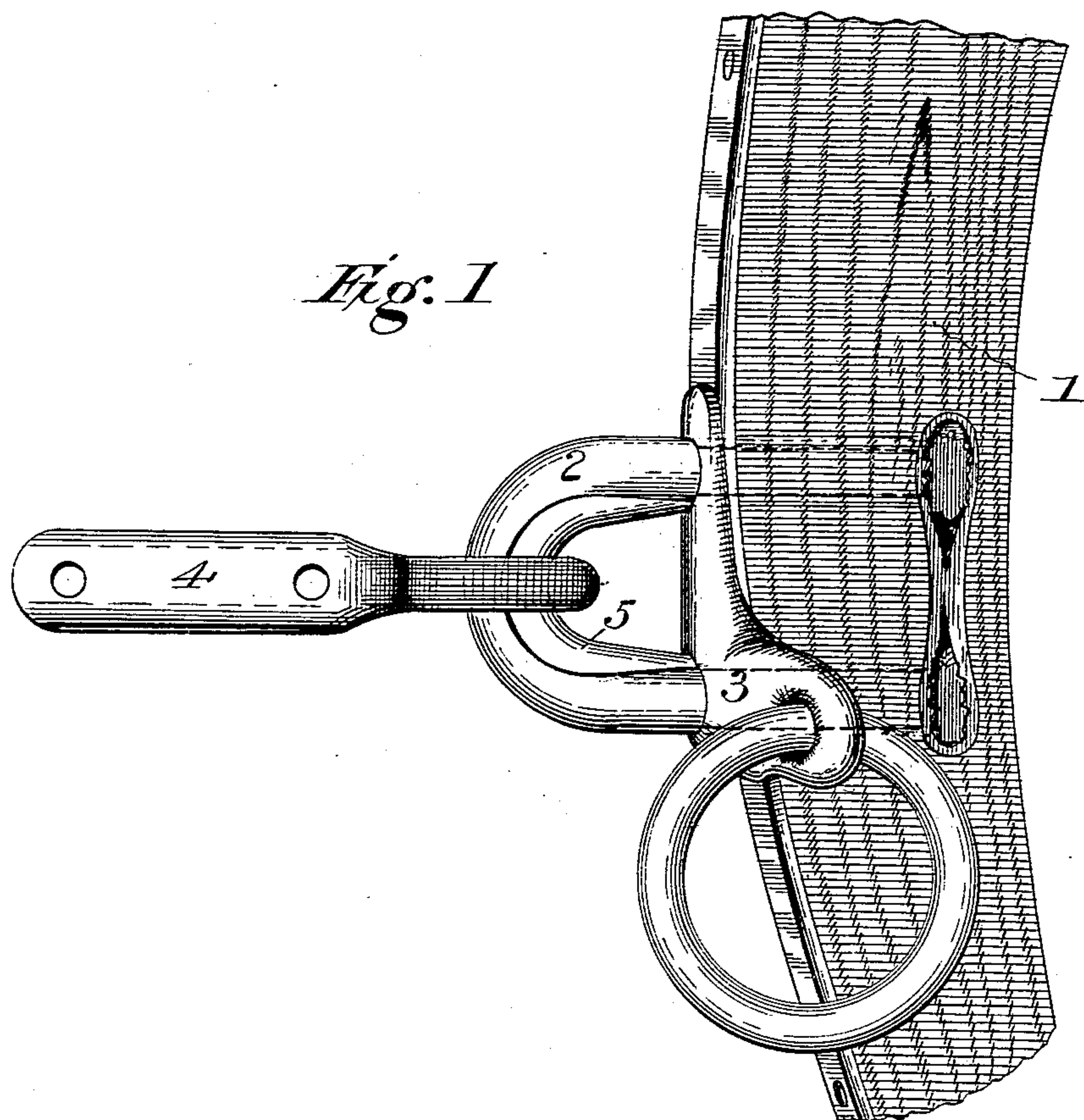


(No Model.)

R. W. JONES.
PROTECTOR FOR HAME STAPLES.

No. 560,037.

Patented May 12, 1896.



Witnesses:
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UNITED STATES PATENT OFFICE.

RICHARD W. JONES, OF SYRACUSE, NEW YORK.

PROTECTOR FOR HAME-STAPLES.

SPECIFICATION forming part of Letters Patent No. 560,037, dated May 12, 1896.

Application filed January 4, 1896. Serial No. 574,371. (No model.)

To all whom it may concern:

Be it known that I, RICHARD W. JONES, a citizen of the United States, residing at Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Improvements in Protectors for Hame-Staples; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to hames, and more particularly to protectors for the staples thereof. Heretofore considerable trouble and inconvenience have been experienced by the wearing out of the hame-staple, which has very frequently caused serious accident. The wear is due to the rubbing or grinding of the tug-clip against the staple, and in a comparatively short space of time the staple is worn through and the hame rendered useless.

To overcome these objections is among the objects of my invention, and to this end I have provided a protector or wear-plate for the hame-staple to receive the wear, thus materially increasing the life of the staple.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a hame, illustrating the application of my invention; and Fig. 2 is a similar view of the protector removed from the hame-staple.

In the drawings, 1 denotes a fragment of a hame; 2, the staple; 3, the ring-plate, and 4 the tug-clip. These parts are, or may be, of any well-known or approved construction, and as they form no part of my invention, *per se*, a further description of them is deemed unnecessary.

The metallic protector is designated by the numeral 5 and is semielliptical in form, as shown, and is provided with an exterior groove 6, which preferably extends from end to end of the protector. This protector is placed between the limbs of the staple with the curved portion of the staple fitting into the groove of the protector. The staple is then driven through the hame and its ends

clenched or otherwise secured to the hame, as shown in Fig. 1. In driving the staple the protector is firmly clamped by it to the ring-plate, thus preventing rattling, while, owing to the snug fit of the staple in the groove of the protector, the latter is securely held against displacement. When the protector has become worn, it may be knocked out, allowing the wear to come directly upon the staple.

My improvement saves the hame, since, when a hame-staple is worn out, the hame is usually discarded, because the staple can only be replaced by a blacksmith or other person skilled in the art. My protector also saves the staple by furnishing or providing a wearing-surface which effectually removes the frictional effects of the tug-clip when in direct contact with the staple. The wear on ordinary hame tug-clips (which have heretofore been provided with protectors or wear-irons) is of no material importance, since the clips may be easily replaced.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination with a hame, of a staple and a rigid metallic protector or wear-plate fitted within the staple and covering the entire interior surface of the staple, said staple having its ends fixedly secured to the hame, thus permanently clamping the protector or wear-plate to the hame, substantially as set forth.

2. The combination with a hame, of a staple, and a rigid metallic protector or wear-plate conforming in outline to the staple and provided with a central exterior groove which receives the staple and thereby prevents lateral displacement of the protector, said staple being driven through the hame and fixedly secured thereto, thus permanently clamping the protector or wear-plate to the hame, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD W. JONES.

Witnesses:

CHAS. R. JONES,
G. S. HIER.